

Composite comprising Organic Fibers having a Low Twist Multiplier and Improved
Compressive Modulus

Abstract of the Invention

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The present invention provides an improved fiber-reinforced article comprised of at least two plies. Each of the plies comprises (a) rubber and (b) cord made from melt-spinnable, non-metallic, multifilament fibers for which the cord has a twist multiplier of less than or equal to about 375, a stress at 1% strain greater than or equal to about 1.7

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grams/denier, and an initial compressive modulus greater than or equal to about 7 grams/denier, and the at least two plies have a fiber orientation angle of greater than or equal to about 23°. The composite is useful as a tire belt in a passenger tire.